[Sequence Listing]

		SEQ ID No: 1	
	5	Length of Sequence: 1874	
	5	Type of Sequence: Nucleic Acid	
		Topology: Linear	
		Strandness: Double strands	
		Kinds of Sequence: cDNA to mRNA	
	10	Origin	
	10	Orgnism Name: Tobacco (Nicotiana tabacum)	
		Strain name: Xanthi NC	
min n man state was at the series of the ser		Character of Sequence	
		Sign designating character: CDS	
igas.		Position that locates: 261672	
ii.	15	Way of determining character: P	
Harry Start, 1875,			
		AGCGCGGTCT ACAAGTCAGG CAGTC ATG ACA ACA ACT CCC ATC GCC AAT CAT	52
		Met Thr Thr Pro Ile Ala Asn His	
	20	1 5	
		CCT AAT ATT TTC ACT CAC CAG TCG TCG TCA TCG CCA TTG GCA TTC TTA	100
		Pro Asn Ile Phe Thr His Gln Ser Ser Ser Pro Leu Ala Phe Leu	
		10 15 20 25	
	25		
		AAC CGT ACG AGT TTC ATC CCT TTC TCT TCA ATC TCC AAG CGC AAT AGT	148
		Asn Arg Thr Ser Phe Ile Pro Phe Ser Ser Ile Ser Lys Arg Asn Ser	

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		GTO	ΛΛ?	r TG(TAA C	GGC GGC	TGG	۸G۸	AC/	CG/	TGC	TCC	GT1	GCC	۲۸۸ :	GAT	TAC	196
		Va]	l Asr	ı Cys	s Asn	Gly	Trp	Λrg	Thr	٠ Arg	Cys	Ser	· Va]	. Л1а	Lys	Asp	Tyr	
					45					50)				55			
	5	ACA	GTT	. CCI	тсс	TCA	GCG	GTC	GAC	GGC	GGA	CCC	GCC	: GCG	GAG	CTG	GAC	244
		Thr	Val	Pro	Ser	Ser	۸la	Val	Asp	Gly	Gly	Pro	Λla	Λla	Glu	Leu	Λsp	
				60)				65					70				
					GTT													292
	10	Cys			Val	Gly	Λla	G1y	Ile	Ser	Gly	Leu	Cys	Ile	Λla	Gln	Val	
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			Ser	Λla	Λsn	Tyr		Λsn	Leu	Met	Val		Glu	Λla	Λrg	Λsp		
	15	90					95					100					105	
A The same than the same than																		
					ΛΛC													388
		Λla	Gly	Gly	۸sn		Thr	Thr	Val	Glu		Лѕр	Gly	Tyr	Leu		Glu	
	00					110					115		•			120		
	20	CAA	CCT	CCC	1.1.C	ልሮሞ	ጥ ፖረ	CAC	ccc	TCC	CAT	CCT	ATC	ጥ ጥ ር	ACT	ATC	CCA	400
					ΛAC													436
		GIU	Gly	FTO	Λsn 125	ser	rne	GIII	PTO	130	Asp	1.10	met	Leu	135	met	VIS	
					125					150					100			
	25	GTA	GAT	тст	GGA	ፐፐር	AAG	GAT	GAT	ፐፐር	GTG	TTG	GGA	CAT	CCT	ለለፕ	CCC	484
	20				Gly													101
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				110					UFI					100				
		CCC	CGT	TTC	GTT	TTG	TGG	ΛAG	GGT	۸۸۸	TTA	ለርር	CCC	GTC	CCC	ТСА	۸۸۸	532
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		Pro	Arg	Phe	Val	Leu	Trp	Lys	Gly	Lys	Leu	Λrg	Pro	Val	Pro	Ser	Lys	
			155					160					165	;				
		CTC	ACT	GAT	CTT	ccc	TTT	TTT	GAT	TTG	АТG	AGC	ATT	CCT	GGC	۸۸G	TTG	580
	5	Leu	Thr	Asp	Leu	Pro	Phe	Phe	Asp	Leu	Met	Ser	Ile	Pro	Gly	Lys	Leu	
		170					175					180					185	
		AGA	GCT	GGT	TTT	GGT	GCC	АТТ	GGC	СТС	CGC	CCT	TCA	CCT	CCA	GGT	CAT	628
		۸rg	Λla	Gly	Phe	Gly	۸la	Ile	Gly	Leu	Λrg	Pro	Ser	Pro	Pro	Gly	His	
	10					190					195					200		
\-de																		
		GAG	GΛΛ	TCA	GTT	GAG	CAG	TTC	GTG	CGT	CGT	ΛΛΤ	СТТ	GGT	GGC	GΛΛ	GTC	676
Anni Juni		Glu	GIu	Ser	Val	Glu	Gln	Phe	Val	Arg	Λrg	Asn	Leu	Gly	Gly	G1u	Val	
					205					210					215			
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61		ттт	GAA	CCC	TTC	ΛΤΛ	CAA	CCA	ттт	тст	тст	ССТ	CTT	ፐለፕ	GCT	CCT	CAT	724
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				220					225					230				
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	30														TGG			772
		Pro	Ser	Lys	Leu	Ser	Met	Lys	Λla	Ala	Phe	Gly		Val	Trp	Lys	Leu	
			235					240					245					
		GAA	GAA	ACT	GGT	GGT	AGC	ATT	ATT	GGA	GGA	ACC	TTT	۸۸۸	GCA	ATA	ΛΛG	820
	25	Glu	Glu	Thr	Gly	Gly	Ser	Ile	Ile	Gly	Gly	Thr	Phe	Lys	Λla	Ile	Lys	
		250					255					260					265	
		GAG	۸G۸	TCC	ΛGT	ACA	CCT	۸۸۸	GCG	CCC	CGC	GAT	CCG	CGT	ΛTT	CCT	۸۸۸	868
		Glu	Λrg	Ser	Ser	Thr	Pro	Lys	Λla	Pro	Λrg	Λsp	Pro	Arg	Leu	Pro	Lys	

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						270					275					280)	
		CCA	ΛΛΑ	GGA	CAG	ACA	GTT	GGA	TCA	TTC	ΛGG	۸AG	GGT	СТС	λGA		CTG	916
		Pro	Lys	G1y	Gln	Thr	Val	Gly	Ser	Phe	Λrg	Lys	Gly	Leu	۸rg	, Met	Leu	
					285					290					295	;		
	5																	
		CCG	GAT	GCA	ATC	AGT	GCA	AGΛ	TTG	GGA	AGC	۸۸۸	TTA	۸۸۸	CTA	TCA	TGG	964
		Pro	Λsp	Ala	Ile	Ser	Λla	۸rg	Leu	Gly	Ser	Lys	Leu	Lys	Leu	Ser	Trp	
				300					305					310				
	10				ΛGC													1012
		Lys		Ser	Ser	He	Thr		Ser	Glu	Lys	Gly		Tyr	His	Leu	Thr	
			315					320					325					
And he specified the state of t		TAC	CAG	۸۲۸	ССА	CAA	CCA	СТА	CTT	TCT	CTT	$C\Delta\Delta$	ACT	CGA	۸CC	ለግጥ	CTC	1060
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Mary Sast N. H.		АТG	ЛСТ	GTG	CCA	TCC	ТЛТ	GTA	GCA	AGC	ллс	ΑΤΛ	ТТЛ	CGT	CCT	СТТ	TCG	1108
					Pro													
	20					350					355					360		
		GTT	GCC	GCA	GCA	GAT	GCA	CTT	ТСЛ	ΛΛΤ	TTC	TAC	TAT	CCC	ССЛ	GTT	GGA	1156
		Val	Λla	Λla	Λla	Лsp	Λla	Leu	Ser	Λsn	Phe	Tyr	Tyr	Pro	Pro	Val	G1y	
					365					370					375			
	25									,								
		GCA	GTC	ΛСΛ	ΤΤΛ	ТСЛ	TAT	CCT	СЛЛ	GAA	GCT	TTA	CGT	GAT	GAG	CGT	CTG	1204
		Λla	Val	Thr	Ile	Ser	Tyr	Pro	Gln	Glu	Λla	Ile	Arg	Asp	Glu	۸rg	Leu	
				380					385					390				

Asp Asn Gly Leu Glu Gly Leu Phe Leu Gly Gly Asn Tyr Val Ser Gly

GTA GCA TTG GGG AGG TGT GTT GAA GGT GCT TAT GAA GTT GCA TCC GAG

Val Ala Leu Gly Arg Cys Val Glu Gly Ala Tyr Glu Val Ala Ser Glu

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SEQ ID No.: 2
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Length of Sequence: 548

Type of Sequence: Amino acid

Topology: Linear

5 Kind of Sequence: Protein

Origin:

Organism Name: Tobacco (Nicotiana tabacum)

Strain name: SR1

10

Met Thr Thr Thr Pro Ile Ala Asn His Pro Asn Ile Phe Thr His Gln

1 5 10 15

Ser Ser Ser Pro Leu Ala Phe Leu Asn Arg Thr Ser Phe Ile Pro 20 25 30

Phe Ser Ser Ile Ser Lys Arg Asn Ser Val Asn Cys Asn Gly Trp Arg

35 40 45

20 Thr Arg Cys Ser Val Ala Lys Asp Tyr Thr Val Pro Ser Ser Ala Val
50 55 60

Asp Gly Gly Pro Ala Ala Glu Leu Asp Cys Val Ile Val Gly Ala Gly
65 70 75 80

Ile Ser Gly Leu Cys Ile Ala Gln Val Met Ser Ala Asn Tyr Pro Asn 85 90 95

Leu Met Val Thr Glu Ala Arg Asp Arg Ala Gly Gly Asn Ile Thr Thr

Val Glu Arg Asp Gly Tyr Leu Trp Glu Glu Gly Pro Asn Ser Phe Gln Pro Ser Asp Pro Met Leu Thr Met Ala Val Asp Cys Gly Leu Lys Asp Asp Leu Val Leu Gly Asp Pro Asn Ala Pro Arg Phe Val Leu Trp Lys = The second secon Gly Lys Leu Arg Pro Val Pro Ser Lys Leu Thr Asp Leu Pro Phe Phe Asp Leu Met Ser Ile Pro Gly Lys Leu Arg Ala Gly Phe Gly Ala Ile Gly Leu Arg Pro Ser Pro Pro Gly His Glu Glu Ser Val Glu Gln Phe Val Arg Arg Asn Leu Gly Gly Glu Val Phe Glu Arg Leu Ile Glu Pro Phe Cys Ser Gly Val Tyr Val Gly Asp Pro Ser Lys Leu Ser Met Lys

Ala Ala Phe Gly Lys Val Trp Lys Leu Glu Glu Thr Gly Gly Ser Ile

		116	Gly	Gly	260		Lys	ΛΙа	116	265		Arg	, Ser	Ser	270		Lys
	5	Λla	Pro	Λrg 275	Λsp	Pro	Λrg	Leu	Pro 280	Lys	Pro	Lys	Gly	G1n 285		Val	G1y
		Ser	Phe 290	Λrg	Lys	G1y	Leu	Λrg 295	Met	Leu	Pro	Лѕр	Ala 300	Ile	Ser	Λla	Λrg
	10	Leu 305	Gly	Ser	Lys	Leu	Lys 310	Leu	Ser	Trp	Lys	Leu 315	Ser	Ser	Ile	Thr	Lys 320
No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15	Ser	Glu	Lys	Gly	Gly 325	Tyr	llis	Leu	Thr	Tyr 330	Glu	Thr	Pro	Glu	Gly 335	Val
the state of the s	15	Val	Ser	Leu	Gln 340	Ser	Λrg	Ser	Ile	Val 345	Met	Thr	Val	Pro	Ser 350	Tyr	Val
	20	Λla	Ser	Asn 355	Ile	Leu	Arg	Pro	Leu 360	Ser	Val	Λla	Ala	Ala 365	Λsp	Ala	Leu
			Asn 370	Phe	Tyr	Tyr	Pro	Pro 375	Val	Gly	Λla	Val	Thr 380	Ile	Ser	Tyr	Pro
	25	Gln 385	Glu	Λla	Ile	Arg	Asp 390	Glu	Λrg	Leu	Val	Λsp 395	Gly	Glu	Leu		Gly 400
		Phe	Gly	Gln		His 405	Pro	Λrg	Thr		Gly 410	Val	Glu	Thr		Gly 415	Thr

Ile Tyr Ser Ser Leu Phe Pro Asn Arg Ala Pro Lys Gly Arg Val Leu Leu Asn Tyr Ile Gly Gly Ala Lys Asn Pro Glu Ile Leu Ser Lys Thr Glu Ser Gln Leu Val Glu Val Val Asp Arg Asp Leu Arg Lys Met Leu Ile Lys Pro Lys Ala Gln Asp Pro Leu Val Val Gly Val Arg South 1 why had 1 the property of the property Val Trp Pro Gln Ala Ile Pro Gln Phe Leu Val Gly His Leu Asp Thr The property of the property o Leu Ser Thr Ala Lys Ala Ala Met Asn Asp Asn Gly Leu Glu Gly Leu Phe Leu Gly Gly Asn Tyr Val Ser Gly Val Ala Leu Gly Arg Cys Val Glu Gly Ala Tyr Glu Val Ala Ser Glu Val Thr Gly Phe Leu Ser Arg Tyr Ala Tyr Lys

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SEQ ID No.: 3

Length of Sequence: 1874 type of Sequence: Nucleic acid Topology: Linear 5 Strandness: Double strands Kind of Sequence: cDNA to mRNA Origin Organism Name: tobacco (Nicotiana tabacum) Strain Name: SR1 Character of Sequence Signal designating Character: CDS Location: 26..1672 way for determining Character: P AGCGCGGTCT ACAAGTCAGG CAGTC ATG ACA ACA ACT CCC ATC GCC AAT CAT 52 Met Thr Thr Pro Ile Ala Asn Ilis 1 5 CCT AAT ATT TTC ACT CAC CAG TCG TCG TCA TCG CCA TTG GCA TTC TTA 100 Pro Asn Ile Phe Thr Ilis Gln Ser Ser Ser Ser Pro Leu Ala Phe Leu 10 15 20 25 AAC CGT ACG AGT TTC ATC CCT TTC TCT TCA ATC TCC AAG CGC AAT AGT 25 148 Asn Arg Thr Ser Phe Ile Pro Phe Ser Ser Ile Ser Lys Arg Asn Ser 30 35 40 GTC AAT TGC AAT GGC TGG AGA ACA CGA TGC TCC GTT GCC AAA GAT TAC 196

Val Asn Cys Asn Gly Trp Arg Thr Arg Cys Ser Val Ala Lys Asp Tyr

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					45	5				50)				58	5		
		ΛСΛ	GTT	CCT	TCC	TCA	GCG	GTC	GAC	GGC	GGA	CCC	GCC	GCG	GAG	CTG	GAC	244
	5	Thr	Val	Pro	Ser	Ser	Ala	Val	Asp	G1y	G1y	Pro	Ala	Ala	Glu	Leu	Asp	
				60					65					70				
		TGT	GTT	ΛΤΛ	GTT	GGA	GCA	GGA	ATT	ΛGT	GGC	CTC	TGC	ΛTΤ	GCG	CAG	GTG	292
		Cys		Ile	Val	Gly	Λla	Gly	Ile	Ser	Gly	Leu	Cys	Ile	Λla	Gln	Val	
	10		75					80					85					
																		•
William W				GCT														340
		Met	Ser	Ala	Asn	Tyr	Pro	Asn	Leu	Met	Val	Thr	Glu	Лlа	Arg	Asp	Arg	
min is area and and the first form		90					95					100					105	
i)	15																	
				GGC														388
		Λla	Gly	G1y	Λsn		Thr	Thr	Val	Glu	Arg	Λsp	Gly	Tyr	Leu	Trp	Glu	
The British was not seen and seed seed						110					115					120		
	20			CCC							•							436
		Glu	Gly	Pro		Ser	Phe	Gln	Pro		Asp	Pro	Met	Leu		Met	Ala	
					125					130					135			
		am.	0.10	mos		e e e e e e e e e e e e e e e e e e e				mm.a								
	0.5			TGT														484
	25	Val	Λsp	Cys	Gly	Leu	Lys	Λsp		Leu	Val	Leu	Gly		Pro	Λsn	Λla	
				140					145					150				
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		CCC																532
		Pro	Λrg	rhe	val	Leu	rp	Lys	uly	Lys	Leu	Λrg	rro	val	rro	Ser	Lys	

		CTC	ΛCT	GΛT	CTT	CCC	TTT	TTT	GAT	TTG	ATG	ΛGC	ΛТТ	ССТ	GGC	ΛΛG	TTG	580
		Leu	Thr	Asp	Leu	Pro	Phe	Phe	Asp	Leu	Met	Ser	Ile	Pro	Gly	Lys	Leu	
	5	170					175					180					185	
		ΛGΛ	GCT	GGT	TTT	GGT	GCC	ATT	GGC	CTC	CGC	CCT	ТСЛ	CCT	CCA	GGT	CAT	628
		Arg	Ala	Gly	Phe	G1y	Лla	Ile	Gly	Leu	Arg	Pro	Ser	Pro	Pro	Gly	His	
						190					195					200		
	10																	
		GAG	GAA	TCA	GTT	GAG	CAG	TTC	GTG	CGT	CGT	AAT	CTT	GGT	GGC	GAA	GTC	676
Marie Harry		Glu	Glu	Ser	Val	Glu	Gln	Phe	Val	Λrg	Λrg	Λsn	Leu	Gly	Gly	Glu	Val	
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	15	TTT	GAA	CGC	TTG	ATA	GAA	CCA	TTT	TGT	TCT	GGT	GTT	TAT	GTT	GGT	GAT	724
		Phe	Glu	Arg	Leu	Ile	Glu	Pro	Phe	Cys	Ser	G1y	Va1	Tyr	Va1	G1y	Asp	
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And the New York of the State o																		
	,	CCC	TCA	AAA	CTG	AGT	ATG	AAA	GCA	GCA	TTT	GGG	AAA	GTT	TGG	AAG	TTG	772
	20	Pro	Ser	Lys	Leu	Ser	Met	Lys	Λla	Ala	Phe	Gly	Lys	Va1	Trp	Lys	Leu	
			235					240					245					
		GΛΛ	GAA	ЛСТ	GGT	GGT	AGC	ΛТТ	ΛTT	GGA	GGA	ЛСС	TTT	۸۸۸	GCA	ΛTΛ	AAG	820
		Glu	Glu	Thr	Gly	Gly	Ser	lle	lle	G1 y	Gly	Thr	Phe	Lys	Λ1а	Ile	Lys	
	25	250					255					260					265	
		GAG	AGA	TCC	ΛGT	ACA	CCT	AAA	GCG	CCC	CGC	GAT	CCG	CGT	TTA	CCT	ΑΛΛ .	868
		Glu	Arg	Ser	Ser	Thr	Pro	Lys	Λla	Pro	Arg	Λsp	Pro	Λrg	Leu	Pro	Lys	

Val Asp Gly Glu Leu Lys Gly Phe Gly Gln Leu His Pro Arg Thr Gln

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	5	G1 y	Val	Glu	ı Thr	Leu	G1y	Thr	Ile	Tyr	Ser	Ser	Ser	Leu	Phe	Pro	Asn	
		410	1				415					420					425	
		CGT	GCC	ССЛ	ΑΛΛ	GGT	CGG	GTG	CTA	CTC	TTG	ЛЛС	TAC	ATT	GGA	GGA	GCA	1348
		Λrg	Λla	Pro	Lys	Gly	Λrg	Val	Leu	Leu	Leu	Asn	Tyr	Ile	Gly	Gly	Λla	
	10					430					435					440		
ı İİ		۸۸۸	ΛΛΤ	CCT	GAA	ΛTΤ	TTG	TCT	۸۸G	ACG	GAG	ΛGC	СЛЛ	CTT	GTG	GΛΛ	GTA	1396
		Lys	Λsn	Pro	Glu	Ile	Leu	Ser	Lys	Thr	Glu	Ser	Gln	Leu	Val	Glu	Val	
Marie error er masse error over					445					450					455			
H.	15																	
		GTT	GAT	CGT	GAC	CTC	ΛGΛ	۸۸۸	ATG	CTT	ATA	AAA	CCC	ΛΛА	GCT	СЛА	GAT	1444
		Val	Λsp	۸rg	Asp	Leu	Λrg	Lys	Met	Leu	He	Lys	Pro	Lys	Λla	Gln	Asp	
Ann ann ann ann ann ann ann ann ann ann				460			•		465					470				
124																		
	30	CCT	CTT	GTT	GTG	GGT	GTG	CGA	GTA	TGG	CCV	СЛЛ	GCT	ATC	CCA	CAG	TTT	1492
		Pro		Val	Val	Gly	Val		Val	Trp	Pro	Gln	Λla	Ile	Pro	Gln	Phe	
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					CTT													1588
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		GTA GCA TTG GGG AGG TGT GTT GAA GGT GCT TAT GAA GTT GCA TCC GAG	1636
		Val Ala Leu Gly Arg Cys Val Glu Gly Ala Tyr Glu Val Ala Ser Glu	
	5	525 530 535	
		GTA ACA GGA TTT CTG TCT CGG TAT GCA TAC AAA TGAAACCTGT GTTGGGGGTA	1690
		Val Thr Gly Phe Leu Ser Arg Tyr Ala Tyr Lys	1689
		540 545	
	10	GTCCAAACCT TGTTAGTAGT ACGATCATGC CTTGGGAAAA TTGGCATGTG CCTAAAAGTT	1749
		TTGCTCATTA GAGTTATTTT AGCCTTGGTA AATGATTTGT ACTTGATATC AGTCGTTTTC	1809
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		ΑΛΛΛ	1874
	15		

SEQ ID No.: 4

Length of Sequence: 23

type of Sequence: Nucleic acid

Strandness: single strand

5 topology:straight

kind of Sequence: other nucleic acid synthetic oligonucleotide

ATTGGTGGCG ACGACTCCTG GAG

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15

SEQ ID No.:5

Length of Sequence: 24

Type of Sequence: Nucleic acid

Strandness: single strand

Topology: straight

Kind of Sequence: other nucleic acid synthetic oligonucleotide

CCAGACCAAC TGGTAATGGT AGCG

20

25

SEQ ID No.: 6

Length of Sequence: 24

Type of Sequence: Nucleic acid

Strandness: single strand

topology: straight

Kind of Sequence: other nucleic acid synthetic oligonucleotide

GCGGTCTACA AGTCAGGCAG TCAT

SEQ ID No.: 7

Length of Sequence: 31

Type of Sequence: Nucleic acid

Strandness: single strand

Topology: straight

Kind of Sequence: other nucleic acid synthetic oligonucleotide

CATGCCAATT TTCCCAAGGC ATGATCGTAC T

10

The series of th

SEQ ID No.: 8

Length of Sequence: 20

Type of Sequence: Nucleic acid

Strandness: single strand

Topology:straight

kind of Sequence: other nucleic acid synthetic oligonucleotide

GGTGTTTATG TTGGTGATCC.

20



Sequence Listing 9

SEQ ID No.: 9

Length of Sequence: 27

Type of Sequence: Nucleic acid

5 Strandness: single strand

Topology: straight

Kind of Sequence: other nucleic acid synthetic oligonucleotide

CACAGATGGT TAGAGAGGCT TACGCAG

10

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Sequence Listing 10

SEQ ID No.:10

Length of Sequence: 27

Type of Sequence: Nucleic acid

Number of chain: single strand

Topology:straight

kind of Sequence: other nucleic acid synthetic oligonucleotide

20 TCATCGCAAG ACCGGCAACA GGATTCA